

CITY OF NEW YORK  
DEPARTMENT OF BUILDINGS

Pursuant to Administrative Code Section 27-131, the following equipment or material has been found acceptable for use in accordance with the Report of Materials and Equipment Acceptance (MEA) Division.

Richard C. Visconti, R.A., Acting Commissioner  
MEA 203-00-E

Report of Material and Equipment Acceptance Division

Manufacturer– Patterson-Kelley Company, 100 Burson Street, East Stroudsburg, Pennsylvania 18301.

Trade Name – Patterson-Kelley, Pulsar.

Product – Oil fired sealed combustion, low pressure, hot water boiler assemblies.

Pertinent Code Section(s) – 27-800, 27-824.

Prescribed Tests–RS 14-6 (UL 726).

Laboratory – Underwriters Laboratories Inc.

Test Report(s) – UL File MH26259, dated June 2, 2000.

Description – Pulse combustion boiler, PO Series, are of the three pass, horizontal design for hot water operation at 30 psig, 250 F. They are intended for industrial or commercial use. The oil-fired boilers are designed for operation firing pressure atomized oil fuels not heavier than ASTM D396 No. 2. The integral burner is equipped with a high tension electric ignition system. The boiler is constructed, equipped, inspected, tested and marked with the ASME "H" stamp in accordance with the ASME Boiler Construction Code. The boilers are made in one size, rated 2.50 gph (Model PO 350) and 3.50 gph (Model PO 500). They are intended for on-off operation. The boilers are identical in design and location of components and vary only in the size of the flapper valve, oil nozzle, motor speed and oil pump unless otherwise indicated herein. The boiler is intended only for use with a sealed combustion air and pressurized venting system. The outside combustion air intake system may be routed either vertically or horizontally and constructed from 5 in. or 6 in. diameter Schedule 40 PVC or CPVC pipe. Total length of the combustion air intake shall not exceed an equivalent length of 35 ft. (for 5 in. dia.) and 70 ft. (for 6 in. dia.), including all fittings. The pipe joints shall be sealed with the appropriate adhesive described in the Installation Instructions. A listed vent cap is provided at the terminus of the air intake system. The terminus may be vertical (above roof) or horizontal (from side wall). The flue gas vent system shall be a listed sealed double-wall venting system of the positive pressure type and routed either vertically or horizontally. Total length of the vent system shall not exceed an equivalent length of 35 ft. (for 5 in. dia.) and 70 ft. (for 6 in. dia.), including all fittings. The terminus may be vertical (above roof) or horizontal (from side wall) and is provided with a listed vent cap. Units, with model numbers and input heating rating, are listed below:

Model No.	Input Heating Rating BTUH
PO 350	
PO 500	

Note: Units may be installed in combustible flooring. Minimum installed clearances from combustible construction shall be as follows: front - 24 inches; top - 24 inches; rear and sides - 6 inches; flue pipe - 2 inches.

Recommendation - That the above boilers, constructed in accordance with the ASME Code and assembled with compatible MEA accepted burner with size and operating characteristics approved by the boiler manufacturer, be accepted for use fired by No. 2 fuel oil, as indicated in the table, when connected to approved vent and air intake as described above in accordance with Article 15 of the Building Code. This acceptance in no way includes the external piping, connections and appurtenances thereto, which are required to fully conform with applicable provisions of law but have not been tested in conjunction with this application. No automatic flue damper device shall be installed in conjunction with these units. Approval shall be obtained from the Department of Air Resources to show compliance with their rules and regulations for fuel oil burning equipment, apparatus, materials and devices shall be obtained from the Bureau of Electrical Control before installation. All shipments and deliveries of such equipment shall be provided with a metal tag, suitably placed, certifying that the equipment shipped or delivered is equivalent to those tested and accepted for use, as provided for in Section 27-131 of the Building Code.

Final Acceptance JUN 28 2000

Examined By S Derkudam